

MAINTENANCE INFORMATION

1996 Toyota Supra

1993-96 MAINTENANCE
Toyota Maintenance Information
Supra

* PLEASE READ THIS FIRST *

NOTE: For scheduled maintenance intervals and the related fluid capacities, fluid specifications and labor times for major service intervals, see SCHEDULED SERVICES article below:

- * SCHEDULED SERVICES - TURBO
- * SCHEDULED SERVICES - NON-TURBO

Warranty information and specifications for fluid capacities, lubrication specifications, wheel and tire size, and battery type are covered in this article.

MODEL IDENTIFICATION

VIN LOCATION

The Vehicle Identification Number (VIN) is located on the left side of the dash panel at the base of the windshield. The VIN chart explains the code characters.

VIN CODE ID EXPLANATION

Numbers preceding the explanations in the legend below refer to the sequence of characters as listed on VIN identification label. See VIN example below.

(VIN)	J	T	2	M	A	7	1	J	2	P	1	1	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

- 1 - Manufacturing Country
J * Japan
- 2 - Manufacturer
T * Toyota
- 3 - Vehicle Type
2 * Passenger Vehicle (Japan)
- 4 - Engine (1993-95)
M * 2JZ-GE, 3.0L 6-Cylinder
M * 2JZ-GTE (Turbo), 3.0L 6-Cylinder
- 4 - Body Type (1996)
D * 3-Door Liftback
D * 3-Door Liftback Wit Sport Roof
- 5-6 - Line (1993-95)
A7 * Supra
A8 * Supra

- 5 - Engine (1996)
 - D * 2JZ-FE 3.0L 6-Cylinder
 - E * 2JZ-FE 3.0L 6-Cylinder Turbo
- 6 - Series/Grade (1996)
 - 2 * Supra
- 7 - Series/Grade (1993-95)
 - 0 * Supra
 - 1 * Supra Turbo
- 7 - Restraint System (1996)
 - 2 * 2 Air Bags
- 8 - Body Type & Restraint System (1993-95)
 - J * 3-Door Liftback With Sport Roof
 - L * 3-Door Liftback
 - M * 3-Door Liftback With Sport Roof
 - N * 3-Door Liftback
- 8 - Line (1996)
 - A * Supra
- 9 - VIN Check Digit
 - * Manufacturer's Internal Code
- 10 - Vehicle Model Year
 - P * 1993
 - R * 1994
 - S * 1995
 - T * 1996
- 11 - Assembly Plant
 - 0-9 * Japan
 - C * Canada
 - U * Georgetown, United States
 - Z * United States
- 12-17 - Serial Number
 - * Sequential Production Number

MAINTENANCE SERVICE INFORMATION

SEVERE & NORMAL SERVICE DEFINITIONS

NOTE: Use the Severe Service schedule if the vehicle to be serviced is operated under ANY (one or more) of these conditions:

Service is recommended at mileage intervals based on vehicle operation and engine type. Service schedules are based on the following primary operating conditions:

Normal Service

- * Driven More Than 10 Miles Daily
- * No Operating Conditions From Severe Service Schedule

Severe Service (Unique Driving Conditions)

- * Towing A Trailer, Using A Camper Or Car Top Carrier
- * Repeated Short Trips Less Than 5 Miles When Temperatures Are Below Freezing

- * Extensive Idling Conditions (Taxi Or Delivery Type Service)
- * Operating On Dusty, Rough, Muddy Or Salt Spread Roads

CAMSHAFT TIMING BELT

CAUTION: Failure to replace a faulty camshaft timing belt may result in serious engine damage.

The condition of camshaft drive belts should always be checked on vehicles which have more than 50,000 miles. Although some manufacturers do not recommend belt replacement at a specified mileage, others require it at 60,000-100,000 miles. A camshaft drive belt failure may cause extensive damage to internal engine components on most engines, although some designs do not allow piston-to-valve contact. These designs are often called "Free Wheeling".

Many manufacturers changed their maintenance and warranty schedules in the mid-1980's to reflect timing belt inspection and/or replacement at 50,000-60,000 miles. Most service interval schedules in this manual reflect these changes.

Belts or components should be inspected and replaced if any of the following conditions exist:

- * Cracks Or Tears In Belt Surface
- * Missing, Damaged, Cracked Or Rounded Teeth
- * Oil Contamination
- * Damaged Or Faulty Tensioners
- * Incorrect Tension Adjustment

Replace the timing belt every 72 months or 60,000 miles if the vehicle is operated under Severe Service conditions such as frequent idling or extensive long distance driving at low speeds.

SERVICE POINT LOCATIONS

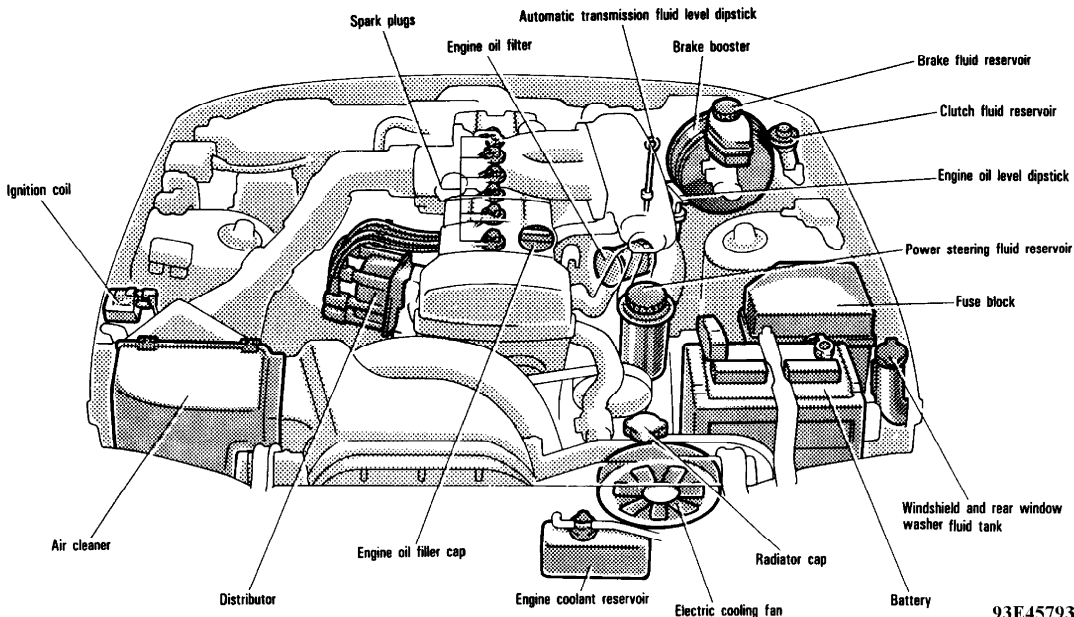


Fig. 1: Service Point Locations (2JZ-GE Non-Turbo Engine)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

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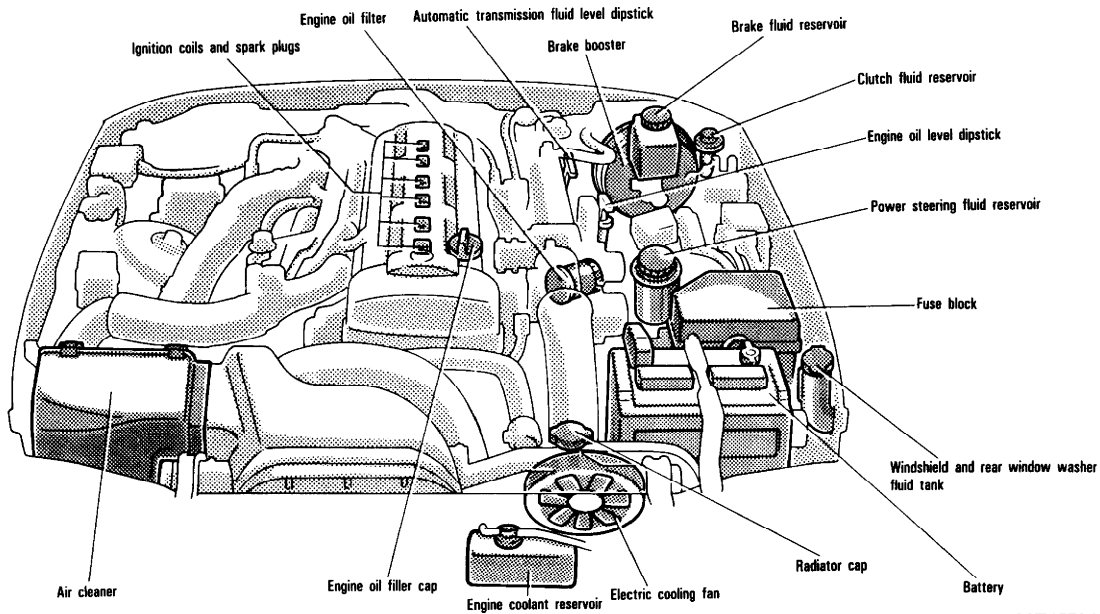


Fig. 2: Service Point Locations (2JZ-GTE Turbo Engine)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

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SERVICE LABOR TIMES

SERVICE LABOR TIMES TABLE (HOURS)

Application	15,000 Mile Service	(1) 30,000 Mile Service	(60,000) Mile Service
3.0L 6-Cylinder			
Automatic Transmission	1.5	1.5	((2) 7.4)
Manual Transmission	1.5	1.5	((2) 7.4)
3.0L Turbo 6-Cylinder			
Automatic Transmission	1.5	1.5	((3) 9.6)
Manual Transmission	1.5	1.5	((3) 9.6)

- (1) - Add .2 hr. if equipped with Limited Slip Differential (LSD).
 (2) - Add 1.8 hrs. to replace camshaft timing belt.
 (3) - Add 2.3 hrs. to replace camshaft timing belt.

LUBRICATION SPECIFICATIONS

LUBRICATION SPECIFICATIONS TABLE

Application	Fluid Specifications
Brake & Clutch Fluid	SAE J1703 Or DOT 3 Brake Fluid
Differential (1)	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 90 API GL-5
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 80W Or 80W-90W API GL-5
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG

Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG
Power Steering Fluid	Dexron-IIIE ATF
Transmission	
Automatic Transmission	
Non-Turbocharged Engines	Dexron-IIIE ATF
Turbocharged Engines	ATF Type T-II
Manual Transmission	
Non-Turbocharged Engines	SAE 75W-90 Or 80W-90 API GL-4 Or GL-5
Turbocharged Engines	Dexron-IIIE ATF

(1) - For Limited Slip Differential (LSD), use only hypoid gear oil specifically recommended for LSD.

FLUID CAPACITIES

FLUID CAPACITIES TABLE (1)

Application	Quantity
A/C System R-134a Refrigerant (2)	23-26.5 Ozs.
Cooling System	
Non-Turbo	
Manual Transmission	7.7 Qts. (7.3L)
Automatic Transmission	8.8 Qts. (8.3L)
Turbo	10.0 Qts. (9.5L)
Differential	1.4 Qts. (1.3L)
Engine Oil (3)	
Non-Turbo	5.6 Qts. (5.3L)
Turbo	5.3 Qts. (5.0L)
Fuel Tank	18.5 Gals. (70L)
Transmission	
Automatic	
Non-Turbo	1.7 Qts. (1.6L)
Turbo	2.0 Qts. (1.9L)
Manual	
Non-Turbo	2.7 Qts. (2.6L)
Turbo	1.9 Qts. (1.8L)

- (1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.
(2) - Use of R-12 in a R134a system will result in SEVERE DAMAGE.
(3) - Includes filter change.

WHEEL & TIRE SPECIFICATIONS

WHEEL & TIRE SPECIFICATIONS TABLE

Wheel Size	Tire Size
16 x 8"	225 x 50ZR
16 x 9"	245 x 50ZR
17 x 8"	235 x 45ZR
17 x 9.5"	255 x 40ZR
Spare Tire	T145 x 70R

TIRE INFLATION

Conventional tires should be inflated to 36 psi (2.5 kg/cm²) except 225/50ZR16 which should be inflated to 33 psi (2.3 kg/cm²). Spare tire should be inflated to 60 psi (4.2 kg/cm²).

WHEEL TIGHTENING

Tighten all wheel lug nuts to 76 ft. lbs. (103 N.m).

BATTERY SPECIFICATIONS

CAUTION: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems may exist on some vehicles. These vehicles may require a relearn procedure. See COMPUTER RELEARN PROCEDURES article in the GENERAL INFORMATION section.

If battery is replaced, it should be of the same group number as shown on the original battery's label.

CAUTIONS & WARNINGS

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) AIR BAG SYSTEM

NOTE: See the AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT Section.

The SRS has no user-servicable parts. Always have servicing done by an authorized dealer.

When performing maintenance on air bag equipped vehicles always observe proper safety precautions.

WARNING: To avoid injury from accidental air bag deployment, read and carefully follow all warnings and service precautions. See appropriate AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section.

CAUTION: Disconnect negative battery cable before servicing any air bag system, steering column or passenger side dash component. After any repair, turn ignition key to the ON position from passenger's side of vehicle in case of accidental air bag inflation

ANTI-LOCK BRAKE SYSTEM (ABS)

CAUTION: Never mix different diameter tires. On loose or uneven surfaces, the ABS system may require longer stopping distances than conventional brake systems. Exercise caution when removing mud or snow from the wheels so as not to damage the ABS wiring or speed sensors.

BATTERY WARNING

WARNING: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems may exist on some vehicles. These vehicles may require a relearn procedure. See appropriate COMPUTER RELEARN PROCEDURES article in the GENERAL INFORMATION section below.

REPLACING BLOWN FUSES

Before replacing a blown fuse, remove ignition key, turn off all lights and accessories to avoid damaging the electrical system. Be sure to use fuse with the correct indicated amperage rating. The use of an incorrect amperage rating fuse may result in a dangerous electrical system overload.

BRAKE PAD WEAR INDICATOR

Indicator will cause a squealing or scraping noise, warning that brake pads need replacement.

CATALYTIC CONVERTER

Continued operation of vehicle with a severe malfunction could cause converter to overheat, resulting in possible damage to converter and vehicle.

COOLANT (PROPYLENE-GLYCOL FORMULATIONS)

CAUTION: To avoid possible damage to vehicle use only ethylene-glycol based coolants with a mixture ratio from 44-68% anti-freeze. DO NOT use 100% anti-freeze as it will cause the formation of cooling system deposits. This results in coolant temperatures of over 300° F (149°C) which can melt plastics. 100% anti-freeze has a freeze point of only -8° F (-22°C).

CAUTION: Propylene-Glycol Mixtures has a smaller temperature range than Ethylene-Glycol. The temperature range (freeze-boil) of a 50/50 Anti-Freeze/Water Mix is as follows:

Propylene-Glycol	-26° F (-32°C)	-	257° F (125°C)
Ethylene-Glycol	-35° F (-37°C)	-	263° F (128°C)

CAUTION: Propylene-Glycol/Ethylene-Glycol Mixtures can cause the destabilization of various corrosion inhibitors. Also Propylene-Glycol/Ethylene-Glycol has a different specific gravity than Ethylene-Glycol coolant, which will result in inaccurate freeze point calculations.

ELECTROSTATIC DISCHARGE SENSITIVE (ESD) PARTS

WARNING: Many solid state electrical components can be damaged by static electricity (ESD). Some will display a warning label, but many will not. Discharge personal static electricity by touching a metal ground point on the vehicle prior to servicing any ESD sensitive component.

ENGINE OIL

CAUTION: Never use non-detergent or straight mineral oil.

FUEL SYSTEM SERVICE

WARNING: Relieve fuel system pressure prior to servicing any fuel system component (fuel injection models).

HALOGEN BULBS

WARNING: Halogen bulbs contain pressurized gas which may explode if overheated. DO NOT touch glass portion of bulb with bare

hands. Eye protection should be worn when handling or working around halogen bulbs.

RADIATOR CAP

CAUTION: Always disconnect the fan motor when working near the radiator fan. The fan is temperature controlled and could start at any time even when the ignition key is in the OFF position. DO NOT loosen or remove radiator cap when cooling system is hot.

RADIATOR FAN

WARNING: Keep hands away from radiator fan. Fan is controlled by a thermostatic switch which may come on or run for up to 15 minutes even after engine is turned off.

TURBOCHARGED MODELS

CAUTION: Do not race engine immediately after starting. When stopping engine, allow engine to idle for approximately 60 seconds before shutting it off. Failure to do so may cause turbocharger damage due to lack of oil flowing to the turbocharger bearings.

WARRANTY INFORMATION

CAUTION: Always refer to customer's copy of warranty information for specific model application and/or coverage limitations.

NEW VEHICLE LIMITED WARRANTY

Covers any repair or replacement of parts which becomes necessary due to defects in materials or workmanship under normal use for 36 months or 36,000 miles from in-service date.

POWERTRAIN WARRANTY

Engine, transmission, front wheel drive, rear wheel drive and restraint system are warranted against defects in materials or workmanship under normal use for 5 years or 60,000 miles, whichever occurs first. See copy of warranty for specific components covered.

CORROSION PERFORATION WARRANTY

Covers any repair or replacement to body sheet metal which develops corrosion perforation (hole through panel), in normal use, due to defects in material or workmanship for a period of 5 years, regardless of mileage.

BATTERY WARRANTY

Covers replacement of defective original battery for first 12 months or 12,000 miles. After the first 12 months or 12,000 miles, warranty covers a pro-rated amount based on months in service, up to a maximum of 36 months.

AIR CONDITIONER REFRIGERANT CHARGE WARRANTY

Covers the air conditioner refrigerant for the first 12 months, regardless of mileage, unless done as a warranty repair.

ADJUSTMENTS WARRANTY

Service adjustments - minor repairs not usually associated with the replacement of parts - are covered for the first 12 months or 12,500 miles, whichever occurs first.

EMISSION SYSTEM DEFECT WARRANTY (EXCEPT CALIFORNIA)

Warrants to the retail purchaser and subsequent purchaser that vehicle was designed, built, and equipped so as to conform at the time of sale with applicable emission regulations, and that it is free from defects in materials or workmanship which may cause the vehicle to fail to conform with applicable regulations for 5 years or 50,000 miles, whichever occurs first.

EMISSION SYSTEM PERFORMANCE WARRANTY (EXCEPT CALIFORNIA)

Covers all repairs, adjustments, or replacements if vehicle fails to conform to applicable emission standards and such failure results in the vehicle owner having to bear a penalty or other sanction under local, state or federal law for 5 years or 50,000 miles, whichever comes first. If the vehicle has been in use for more than 24 months or 24,000 miles, the manufacturer will make the necessary adjustments, repairs or replacements at no cost to the owner only when noncompliance is caused by failure of components which have been installed in the vehicle for the sole or primary purpose of reducing vehicle emissions. See copy of warranty for specific components covered.

EMISSION SYSTEM PERFORMANCE WARRANTY (CALIFORNIA)

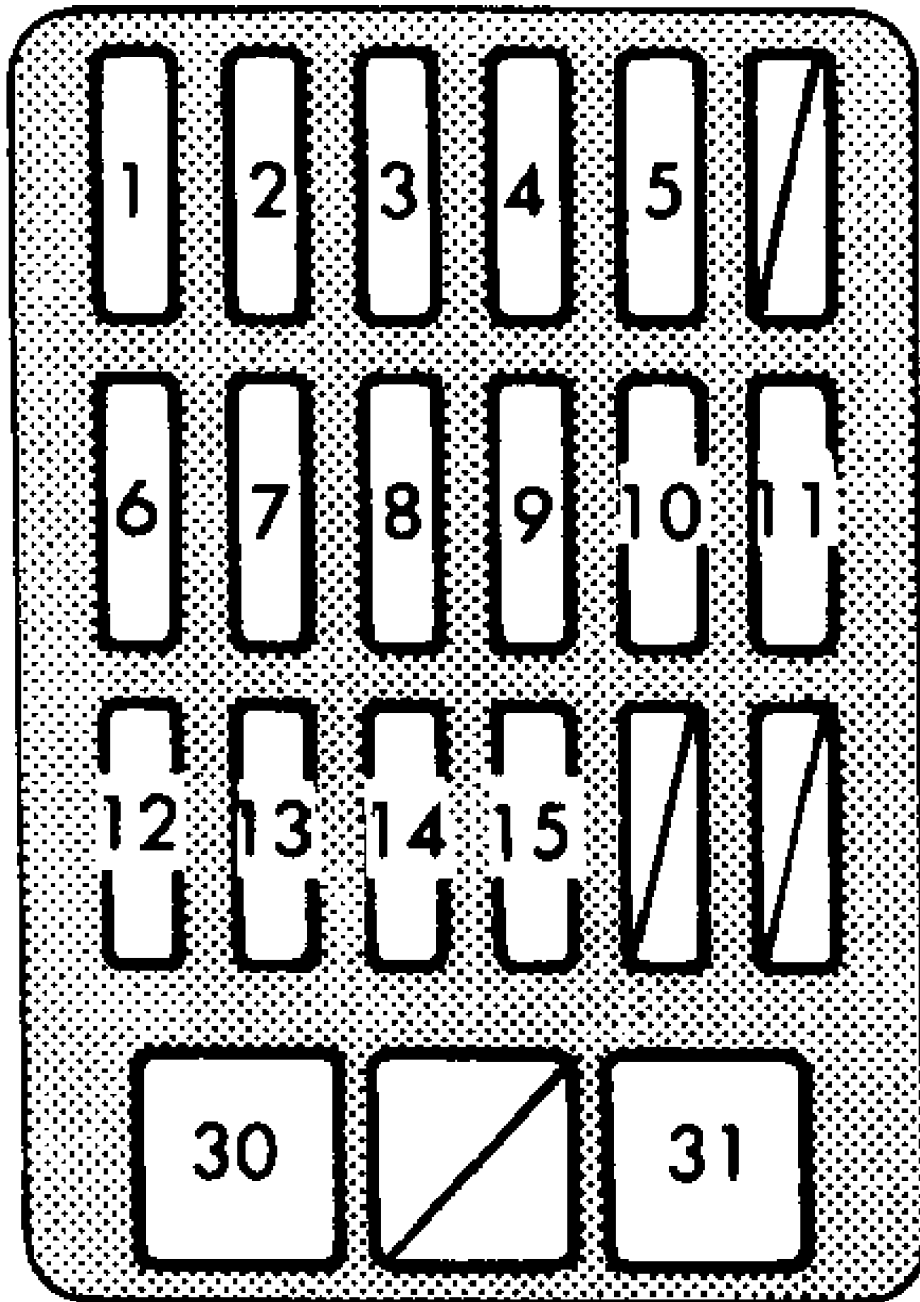
For a period of 3 years or 50,000 miles, manufacturer will make all necessary repairs and adjustments to ensure vehicle passes a required Smog Check inspection.

EMISSION SYSTEM DEFECT WARRANTY (CALIFORNIA)

For a period of 5 years or 50,000 miles, whichever occurs first, vehicle is free from defects in materials or workmanship which may cause it to fail to conform with applicable California emission regulations. Certain emission-related parts are covered for repair or replacement for 7 years or 70,000 miles, whichever occurs first. See copy of warranty for specific components covered.

FUSES & CIRCUIT BREAKERS

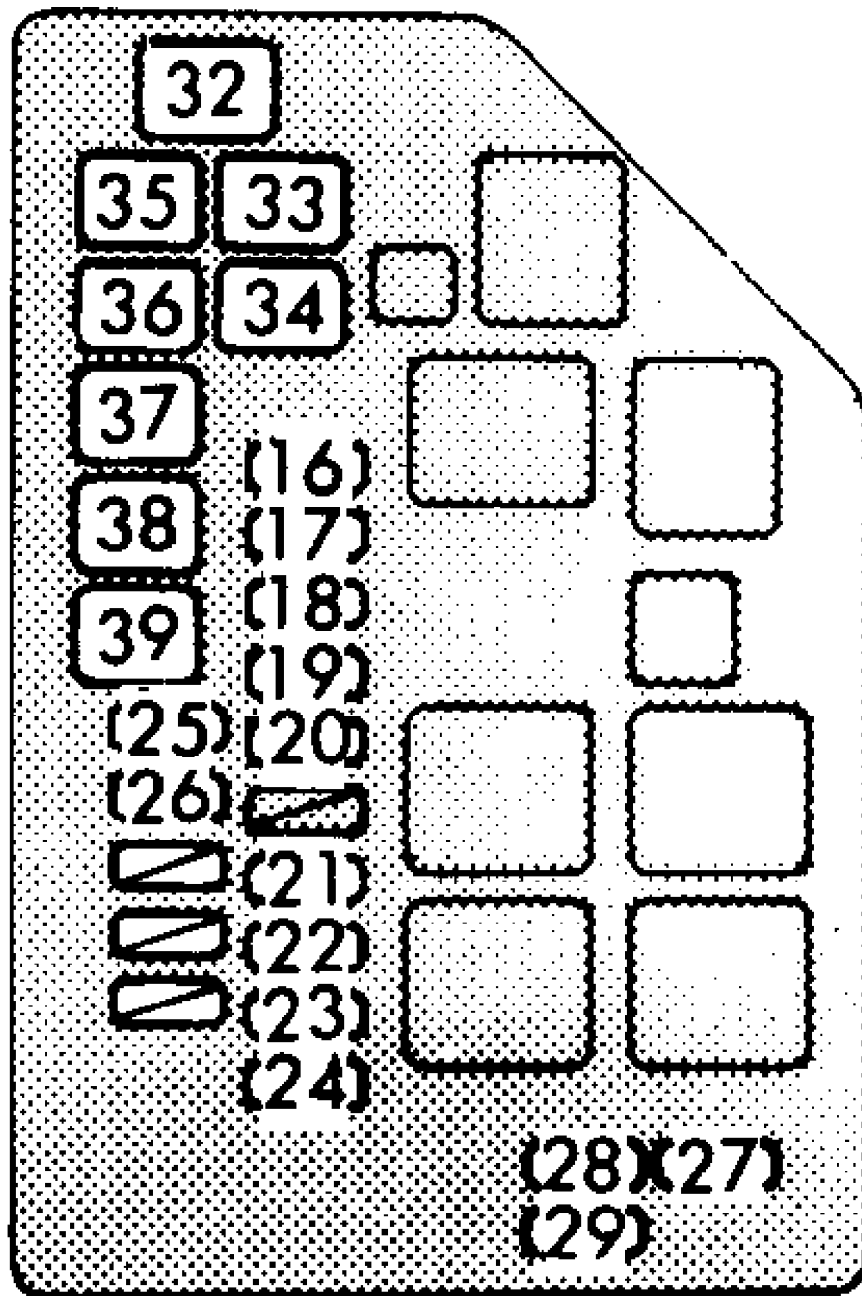
There are 2 fuse panels on this vehicle. The driver's side fuse panel is located behind the driver's kick panel. The main fuse and relay panel is in the engine compartment.



DRIVER'S SIDE KICK PANEL

93C45528

Fig. 3: Passenger Compartment Fuse Panel Identification
Courtesy of Toyota Motor Sales, U.S.A., Inc.



ENGINE COMPARTMENT FUSE BLOCK

93D45529

Fig. 4: Engine Compartment Fuse Panel Identification
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

Fuse & Circuit Breaker Identification

- 1 - 20 Amp
Windshield Wiper/Washer, Rear Wiper/Washer
- 2 - 7.5 Amp
A/C System
- 3 - 15 Amp
Seat Heater
- 4 - 7.5 Amp
Starter System
- 5 - 7.5 Amp
Charging System, Fuel Injection, Discharge Warning Light, SRS System
- 6 - 10 Amp
Instrument Panel Lights & Control, Daytime Running Lights
- 7 - 10 Amp
Mirror Heaters
- 8 - 7.5 Amp
Turn Signals
- 9 - 15 Amp
Stoplights, Cruise Control Cancel
- 10 - 15 Amp
A/C, Cigarette Lighter, SRS System, Theft Deterrent, Shift Lock Control
- 11 - 7.5 Amp
Radio, Cassette, Power Antenna
- 12 - 10 Amp
Taillights, Parking & Side Marker Lights, License Plate Light
- 13 - 10 Amp
Cruise Control, ABS, Power Steering, Power Antenna, Theft Deterrent, Shift Lock, Traction Control System
- 14 - 10 Amp
Gauges & Meters, Service Indicators & Buzzers, Defogger, Charging System, Cruise Control, Electronic Controlled Transmission, Traction Control System
- 15 - 10 Amp
A/C, Cruise Control, ABS, SRS System, Traction Control System
- 16 - 30 Amp
Fuel Injection System
- 17 - 30 Amp
Fuel Injection System
- 18 - 30 Amp
Starting System
- 19 - 15 Amp
Front Foglights
- 20 - 15 Amp
Horn, Hazard Flashers
- 21 - 7.5 Amp
Traction Control System
- 22 - 7.5 Amp
Charging System
- 23 - 7.5 Amp
Interior Lights, Courtesy Lights, Trunk Light, Ignition Switch Light, Open Door Light, Theft Deterrent System, Daytime Running Lights
- 24 - 20 Amp
Radio & Cassette Player
- 25 - 15 Amp
Right Headlight
- 26 - 15 Amp
Left Headlight
- 27 - Spare
- 28 - Spare
- 29 - Spare
- 30 - 30 Amp

- 31 - 30 Amp
Power Windows, Power Door Locks, Theft Deterrent System
- 32 - 120 Amp
Rear Window Defogger
- 33 - 30 Amp
Charging System
- 34 - 50 Amp
Traction Control System
- 35 - 50 Amp
Headlights, Starting System
- 36 - 30 Amp
Air Conditioning
- 37 - 30 Amp
Electric Cooling Fan
- 38 - 60 Amp
ABS, Traction Control System
- 39 - 50 Amp
Electronic Ignition/Distributor Ignition
- 39 - 60 Amp
Protection for Panel, Stop, Tail, ECU, Defogger, Door Fuses